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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/080,492	02/22/2002	Jan-Olof Joel Wesstrom	980.1373US01	8498		
38846	7590 04/19/2004		EXAM	EXAMINER		
CARLSON, CASPERS, VANDENBURGH & LINDQUIST			NGUYEN, DUNG T			
225 SO. 6TH SUITE 3200			ART UNIT	PAPER NUMBER		
MPIS, MN			2828			
			DATE MAILED: 04/19/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Ар	plicant(s)					
Office Action Summary		10/080,492	WE	WESSTROM, JAN-OLOF JOEL					
		Examin r	Art	Unit					
		Dung (Michael) T							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, howevely within the statutory minired will apply and will expire Soute, cause the application to	er, may a reply be timely file num of thirty (30) days will b IX (6) MONTHS from the m become ABANDONED (35	ed be considered timely. ailing date of this con U.S.C. § 133).	nmunication.				
Status									
1)⊠	Responsive to communication(s) filed on 26	January 2004.							
2a)□	This action is FINAL . 2b)⊠ This action is non-final.								
3)									
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.								
_	4a) Of the above claim(s) is/are withdrawn from consideration.								
· —	Claim(s) is/are allowed.								
·	☑ Claim(s) <u>1,3-9 and 11-20</u> is/are rejected.								
· · · · · ·	Claim(s) <u>2,10</u> is/are objected to.								
8)[_]	Claim(s) are subject to restriction and	l/or election requirem	ient.						
Applicat	ion Papers								
9) The specification is objected to by the Examiner.									
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the	Examiner. Note the	attached Office Acti	on or form PTC)-152.				
Priority (under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	t(s)								
	te of References Cited (PTO-892)		nterview Summary (PTO aper No(s)/Mail Date						
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date	ه (8) (5	aper No(s)/Mail Date Notice of Informal Patent Other:		152)				

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-5, 8-9, 11-13, 16, and 19-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Osinki et al. (US6421363).

With respect to claims 1, 3-4, 9, 11-12, and 19-20, Osinki show in Fig.1-2 a tunable waveguide (col.8, 1.56-67 and col.9, 1.1-35) formed from a tuning material; an amplifying material 6 (active region) having a composition different (col.9, 1.7-12) from the composition of the tuning material, the amplifying material 6 disposed in a parallel relationship with lateral to the tunable waveguide so as to be

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capable of amplifying light at the same time as the light propagates along the tunable waveguide; and a contact 2 for injecting charge carriers through the tunable material and the amplifying material 6.

With respect to claims 5, 13, and 18, Osinki disclose in Fig.1 a grating structure 8.

With respect to claims 8 and 16, Osinki disclose the amplifying material is InGaAsP (col.9, 1.10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-7, 14-15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osinki et al. (US6421363) in view of Alferness et al. (US5253314).

With respect to claims 6-7 and 14-15, Osinki disclose all limitations of the claims except for the amplifying material having a photoluminescence wavelength of about 1.55 um. Alferness teach in Fig.1 the amplifying material (MQW) having a photoluminescence wavelength of about 1.55 um. For the benefit of selecting the wavelength for the amplifying material, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Osinki the amplifying material having a photoluminescence wavelength of about 1.55 um as taught by Alferness.

With respect to claim 17, Alferness disclose in Fig.1 a second waveguide 18.

Allowable Subject Matter

Claims 2 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen

Supervisory Patent Examiner Technology Center 2200